ADDITIONAL

PIONEER

Service Manual

ORDER NO.
HRT-186-0

PORTABLE STEREO FM/AM RADIO CASSETTE RECORDER

SK-350 DU, KC
SK-300 DU, KC

NOTE: This additional service manual is designed to be used together with Model SK-350, 300/D, DP Service Manual (HRT-185). Refer to it for finding parts numbers and adjustment, etc. which are not shown in this manual.

SPECIFICATIONS

Max. output power	2W + 2W
Max. music power	15W (total music power)
Speakers	16cm 2-way
Frequency response (SK-350)	Normal tape: 50Hz ~ 14kHz CrO_2 tape: 50Hz ~ 15kHz Metal Tape: 50Hz ~ 16kHz
Frequency response (SK-300)	50Hz ~ 14kHz
Frequency range	FM: 88 ~ 108MHz AM: 525 ~ 1,605kHz
Input jack	AUX
Output jacks (SK-350)	LINE OUT, PHONES
Output jack (SK-300)	PHONES
Power source	120/220/240V AC 50/60Hz 120V AC 60Hz (Canada) 12V DC (eight 1.5V "D" batteries)
Dimensions (W x H x D) (SK-350)	532 x 220 x 123mm (21 x 8 5/8 x 4 7/8 in.)
Dimensions (W x H x D) (SK-300)	532 x 220 x 120mm (21 x 8 5/8 x 4 3/4 in.)
Weight	4.6kg (10.1 lbs., without batteries)

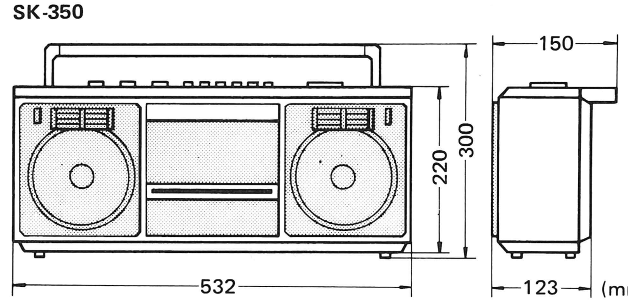
SK-350

(Subfunctions)	Dolby NR, tape selector (METAL/ CrO_2/NORM), one touch recording, music search, record muting, auto stop mechanism
(Indicators)	POWER (red LED), DOLBY NR (green LED), REC (red LED), TUNING (green LED), STEREO (red LED)

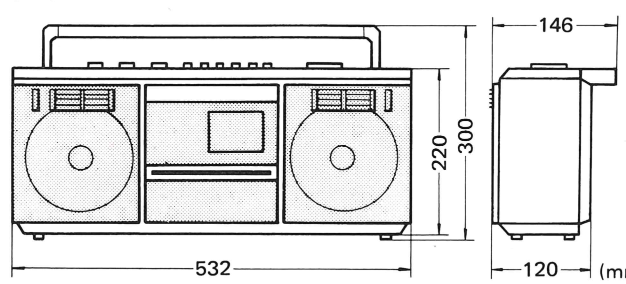
SK-300

(Subfunctions)	One touch recording, music search, record muting, auto stop mechanism
(Indicators)	POWER (red LED), REC (red LED), TUNING (green LED), STEREO (red LED)

SK-350



SK-300



Note: Specifications and design are subject to change without notice.

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PARTS LIST

Main P.C. Board (SK-350)

	SK-350/D, DP		SK-350/DU, KC	
Mark	**Part No.**	**Description**	**Part No.**	**Description**
★★	2SD468	Q308	2SC1383	Q308
	HTX-142	L2 Antenna Unit	HTX-143	L2 Antenna Unit (SK-350/DU)
	CEA102M16L	C306	CEA102M25L	C306
	CEA471M16L	C318	CEA471M25L	C318
	CEA221M16L	C336	CEA221M25L	C336
	CQMA183K50	C803, C804	CQMA273K50	C803, C804

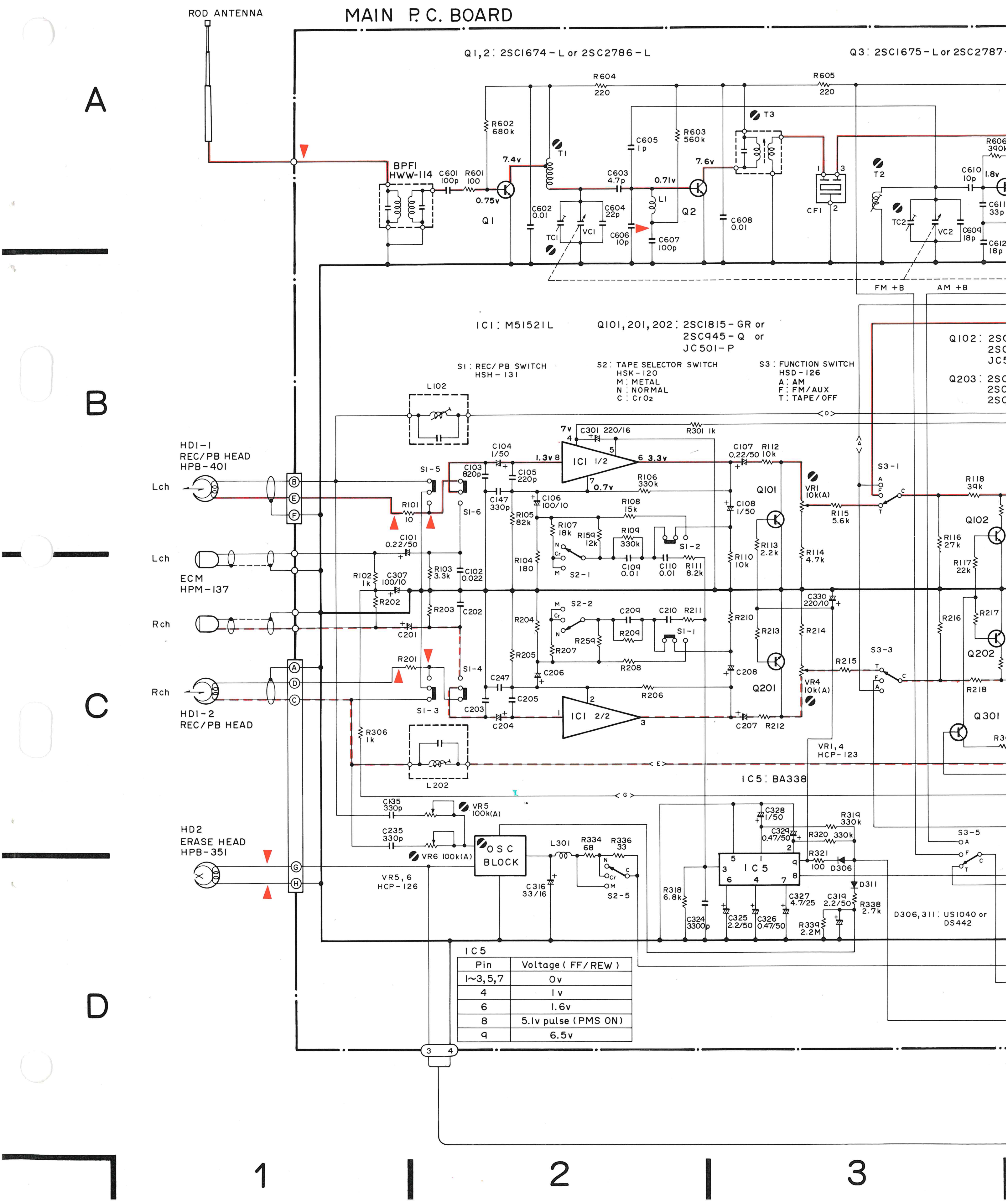
Main P.C. Board (SK-300)

	SK-300/D, DP		SK-300/DU, KC	
Mark	**Part No.**	**Description**	**Part No.**	**Description**
★★	2SD468	Q304	2SC1383	Q304
	HTX-142	L2 Antenna Unit	HTX-143	L2 Antenna Unit (SK-300/DU)
	CEA102M16L	C307	CEA102M25L	C307
	CEA471M16L	C324	CEA471M25L	C324
	CEA101M16L	C325	CEA101M25L	C325
	CQMA183K50	C803, C804	CQMA273K50	C803, C804

Miscellaneous Parts List

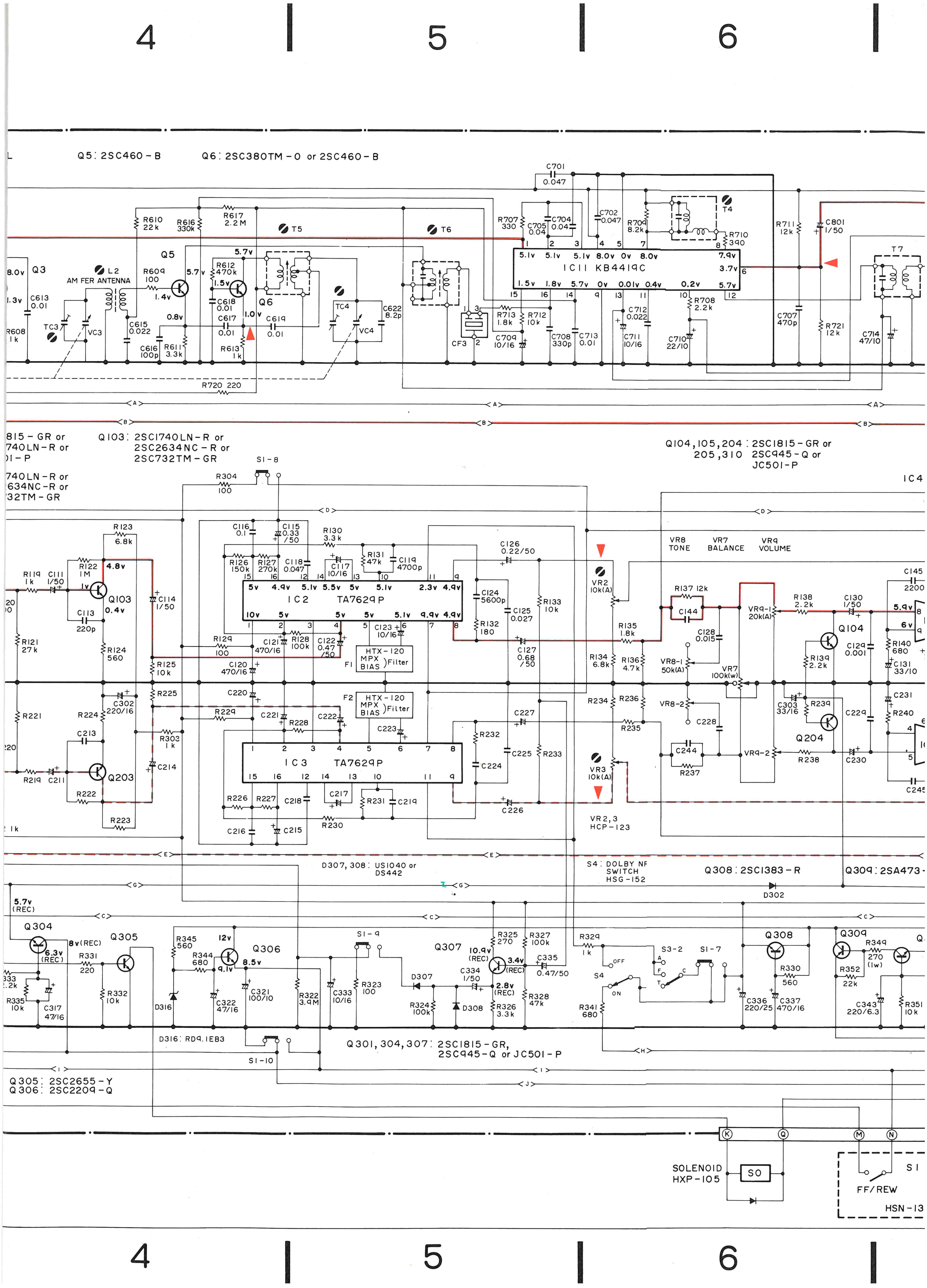
	SK-350, 300/D, DP		SK-350, 300/DU, KC	
Mark	**Part No.**	**Description**	**Part No.**	**Description**
⚠★	HTT-171	Power Transformer	HTT-174	Power Transformer (SK-350/KC, SK-300/KC)
★★	HSD-128	S2 Switch (Voltege Selector)	————	Deleted (SK-350/KC, SK-300/KC)

SCHEMATIC CIRCUIT DIAGRAM (SK-350)

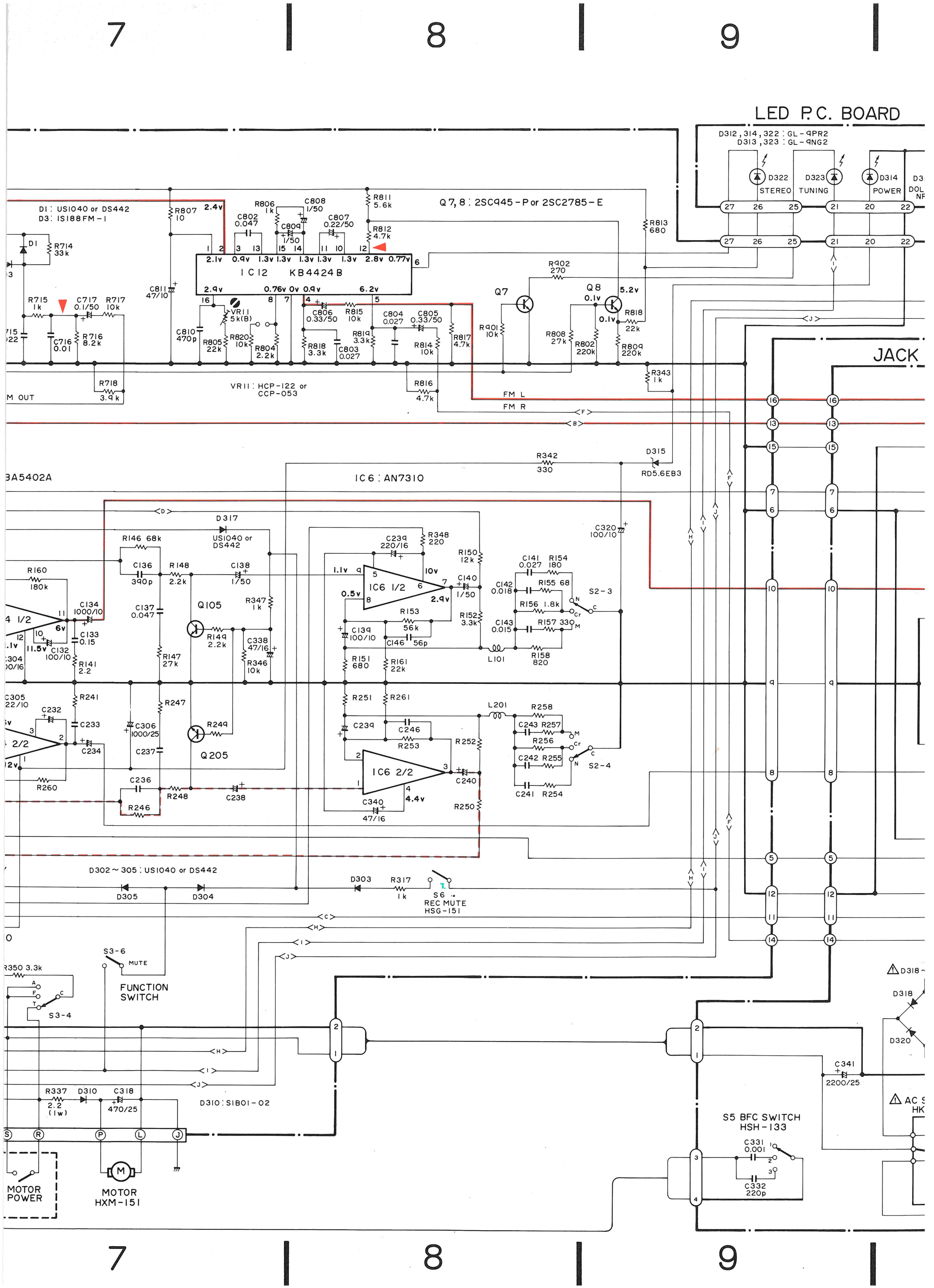


IC5

Pin	Voltage (FF/REW)
1~3,5,7	0v
4	1v
6	1.6v
8	5.1v pulse (PMS ON)
9	6.5v



4
5
6
Q5: 2SC460-B
Q6: 2SC380TM-O or 2SC460-B
AM FER ANTENNA
L2
T4
T5
T6
T7
TC3
TC4
VC3
VC4
CF3
IC11 KB4419C
Q3
Q5
Q6
R720 220
815-GR or
740LN-R or
1-P
740LN-R or
634NC-R or
32TM-GR
Q103: 2SC1740LN-R or
2SC2634NC-R or
2SC732TM-GR
Q104, 105, 204: 2SC1815-GR or
205, 310 2SC945-Q or
JC501-P
S1-8
IC4
IC2 TA7629P
IC3 TA7629P
HTX-120
MPX
BIAS
Filter
VR8 TONE
VR7 BALANCE
VR9 VOLUME
VR2 10k(A)
VR3 10k(A)
VR8-1 50k(A)
VR7 100k(W)
VR9-1 20k(A)
VR2, 3
HCP-123
Q103
Q203
Q104
Q204
D307, 308: US1040 or
DS442
S4: DOLBY NR
SWITCH
HSG-152
Q308: 2SC1383-R
Q309: 2SA473-
D302
Q304
Q305
Q306
Q307
Q308
Q309
5.7v (REC)
8v (REC)
6.3v (REC)
D316
D316: RD9.1EB3
D307
D308
S1-9
S1-10
S1-7
S3-2
S4
OFF
ON
Q301, 304, 307: 2SC1815-GR,
2SC945-Q or JC501-P
Q305: 2SC2655-Y
Q306: 2SC2209-Q
SOLENOID
HXP-105
SO
S1
FF/REW
HSN-13
K
Q
M
N
4
5
6


7
8
9
LED P.C. BOARD
D312, 314, 322 : GL-9PR2
D313, 323 : GL-9NG2
D322 STEREO
D323 TUNING
D314 POWER
Q7, 8 : 2SC945-P or 2SC2785-E
D1 : US1040 or DS442
D3 : 1S188FM-1
IC12 KB4424B
VR11 : HCP-122 or CCP-053
M OUT
FM L
FM R
JACK
BA5402A
IC6 : AN7310
D315
RD5.6EB3
D317
US1040 or DS442
Q105
Q205
IC6 1/2
IC6 2/2
S2-3
S2-4
D302 ~ 305 : US1040 or DS442
S6
REC MUTE
HSG-151
S3-6
MUTE
FUNCTION SWITCH
S3-4
D310 : S1B01-02
MOTOR POWER
MOTOR
HXM-151
S5 BFC SWITCH
HSH-133
D318
D320
C341
2200/25
AC
7
8
9

SWITCHES :

◎ MAIN P.C. BOARD

- S1 : REC/PB SWITCH ········· REC-PB
- S2 : TAPE SELECTOR SWITCH ········· METAL-CrO_2-NORM
- S3 : FUNCTION SWITCH ······· AM-FM/AUX-TAPE/OFF
- S4 : DOLBY NR SWITCH ······· ON-OFF
- S6 : REC MUTE SWITCH ······· ON-OFF

◎ JACK P.C. BOARD

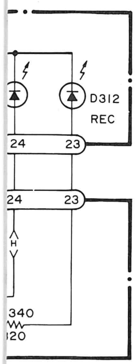
- S5 : BFC SWITCH ············ 1-2-3

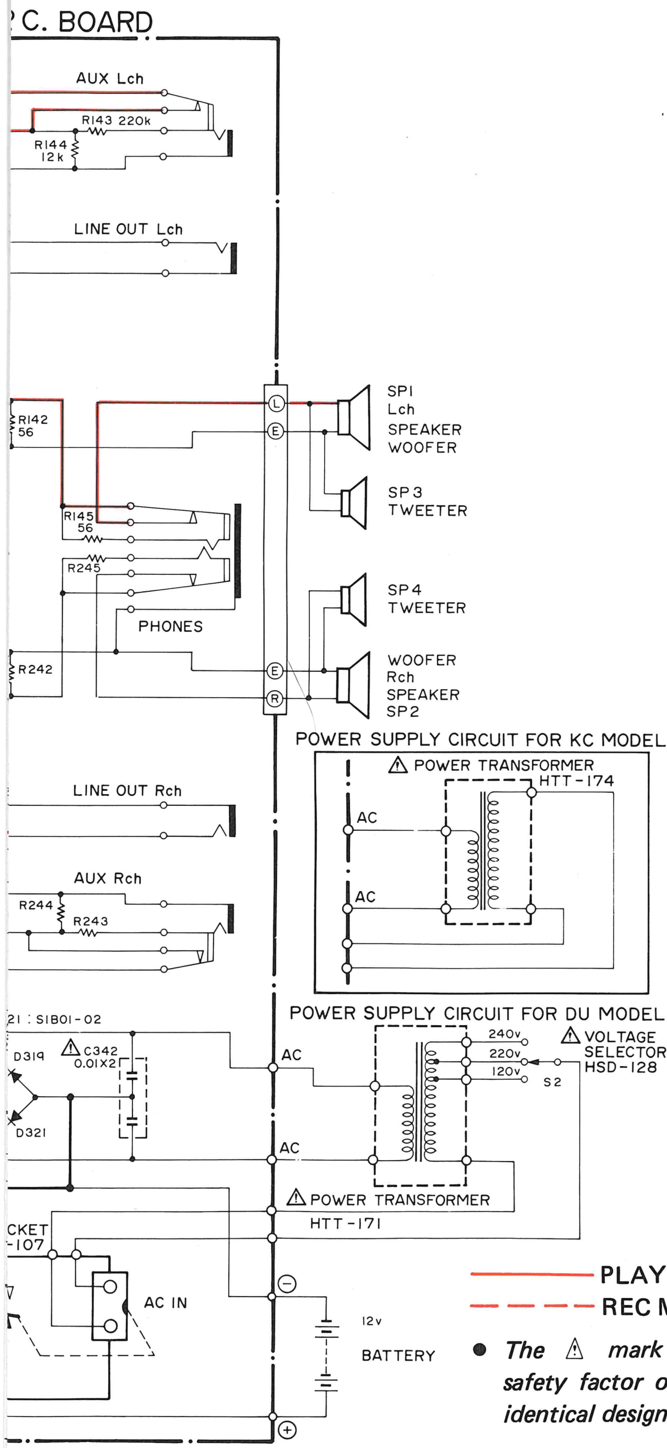
◎ MISCELLANEOUS

- S1 : FF/REW SWITCH ········ ON-OFF
- MOTOR POWER SWITCH ·········· ON-OFF
- S2 : VOLTAGE SELECTOR SWITCH (DU MODEL) ····· 240v-220v-120v

The underlined indicates the switch position.

A





B

C

D

Fig. 1

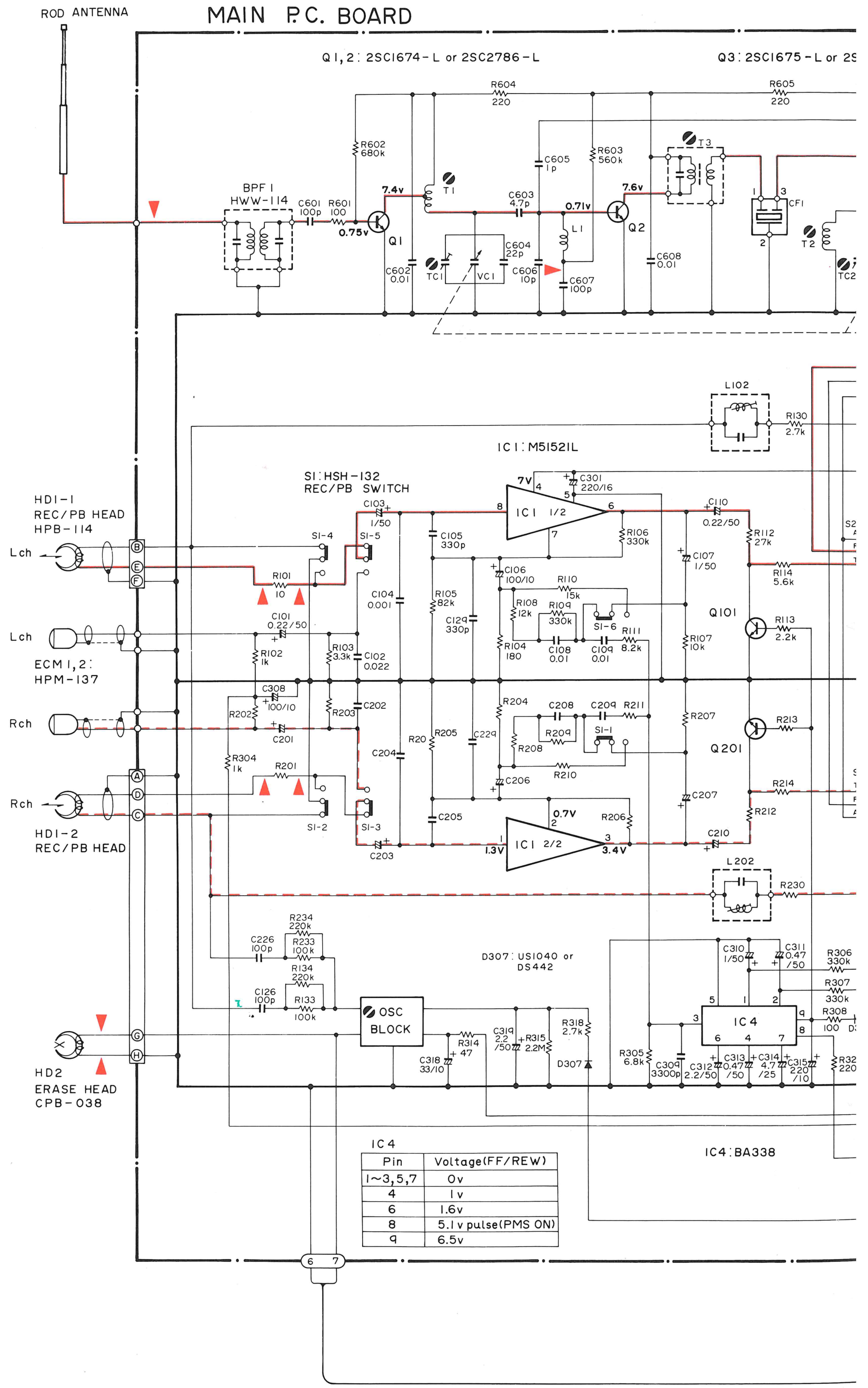
——— PLAY MODE

– – – REC MODE

● *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

1 2 3

SCHEMATIC CIRCUIT DIAGRAM (SK-300)

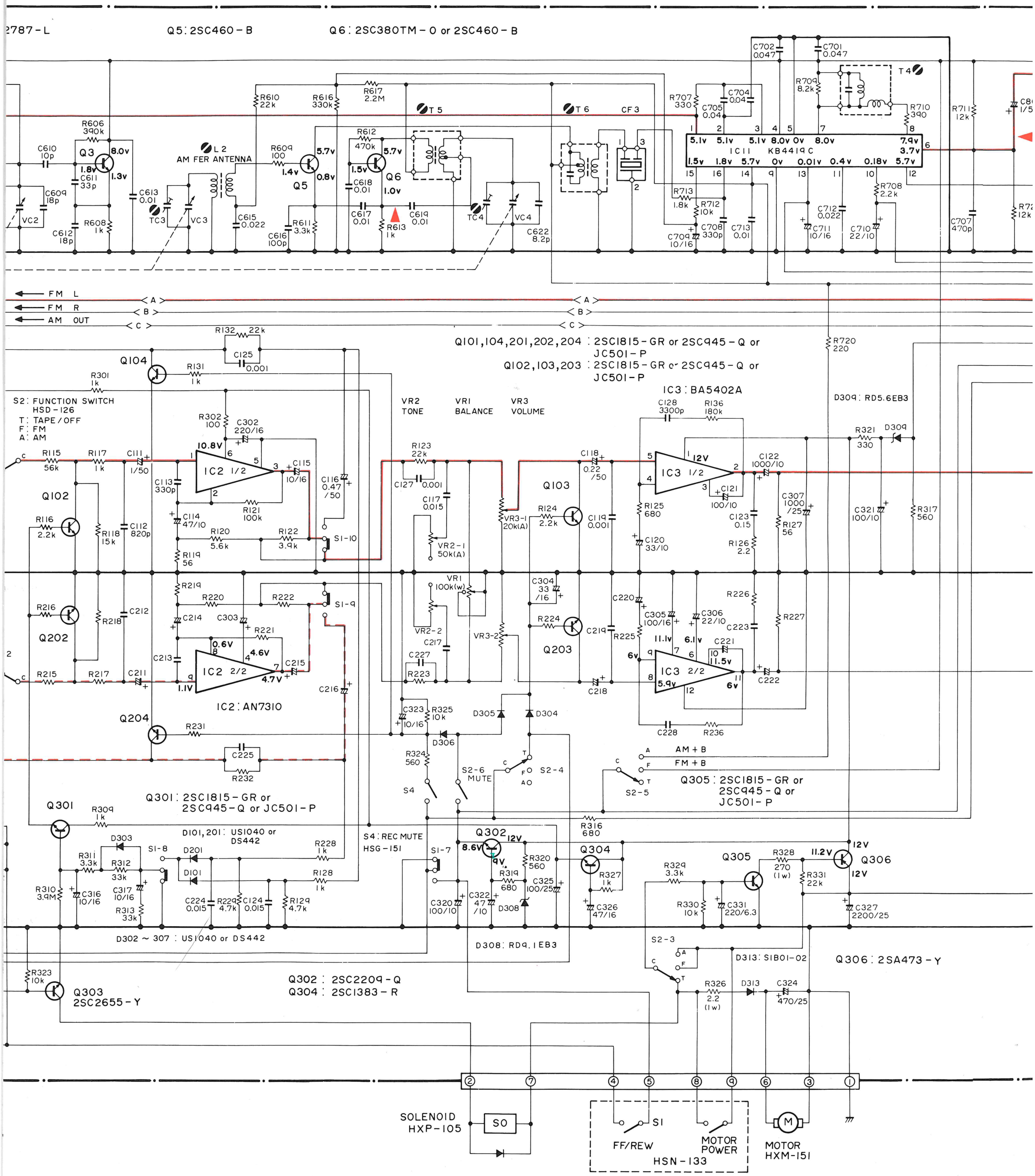


IC4

Pin	Voltage(FF/REW)
1~3,5,7	0v
4	1v
6	1.6v
8	5.1v pulse(PMS ON)
9	6.5v

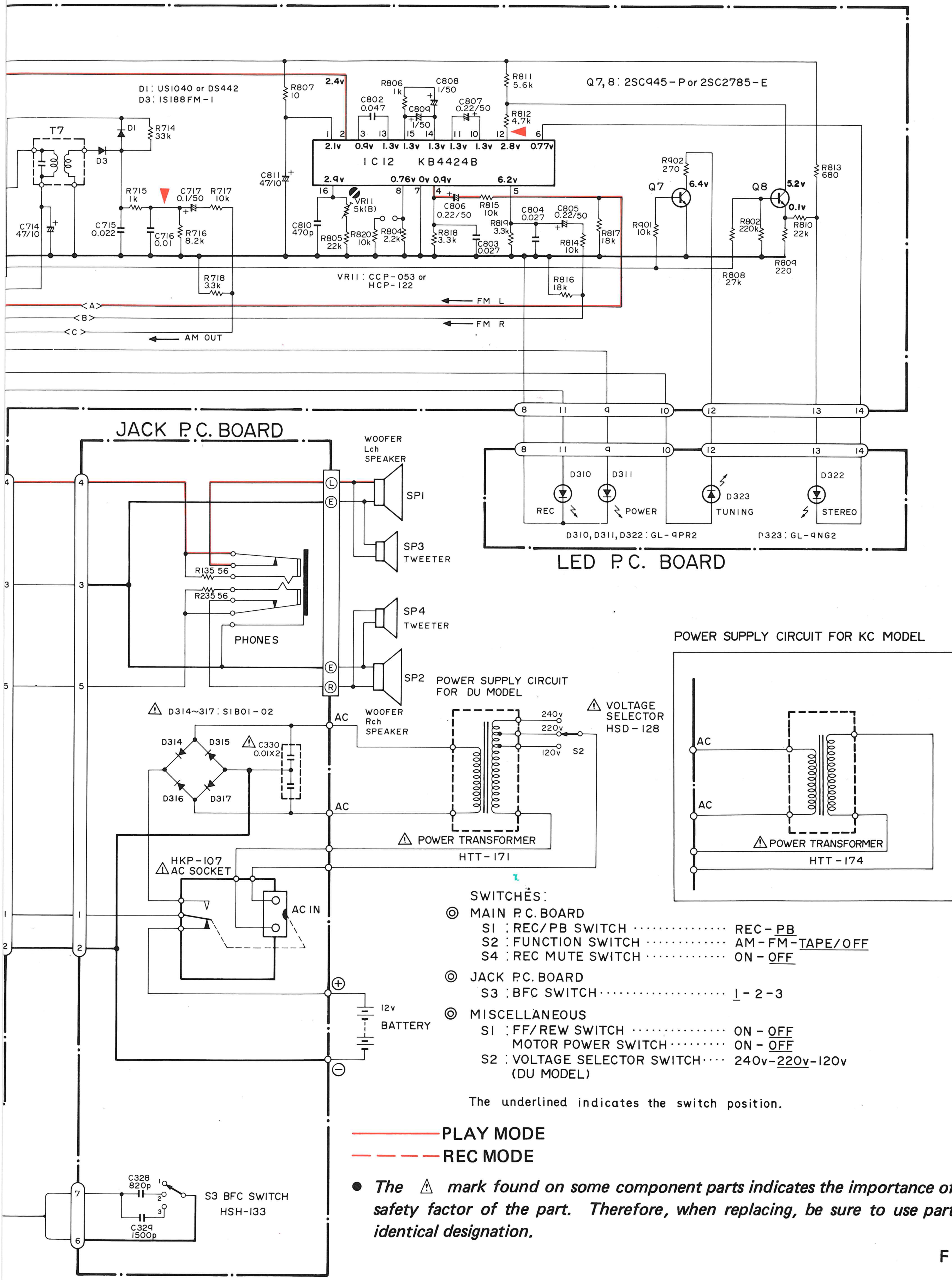
1 2 3

4 5 6



2787-L
Q5 : 2SC460-B
Q6 : 2SC380TM-O or 2SC460-B
L2 AM FER ANTENNA
T5
T6
CF3
T4
IC11 KB4419C
FM L
FM R
AM OUT
Q101,104,201,202,204 : 2SC1815-GR or 2SC945-Q or JC501-P
Q102,103,203 : 2SC1815-GR or 2SC945-Q or JC501-P
IC3 : BA5402A
D309 : RD5.6EB3
S2 : FUNCTION SWITCH HSD-126
T : TAPE / OFF
F : FM
A : AM
VR2 TONE
VR1 BALANCE
VR3 VOLUME
IC2 : AN7310
AM + B
FM + B
Q305 : 2SC1815-GR or 2SC945-Q or JC501-P
Q301 : 2SC1815-GR or 2SC945-Q or JC501-P
D101, 201 : US1040 or DS442
S4 : REC MUTE HSG-151
S2-6 MUTE
D302 ~ 307 : US1040 or DS442
D308 : RD9.1EB3
D313 : S1B01-02
Q306 : 2SA473-Y
Q303 2SC2655-Y
Q302 : 2SC2209-Q
Q304 : 2SC1383-R
SOLENOID HXP-105
SO
FF/REW
S1
MOTOR POWER
HSN-133
MOTOR HXM-151

4 5 6



SWITCHES:

◎ MAIN P.C. BOARD

S1 : REC/PB SWITCH ··············· REC-PB
S2 : FUNCTION SWITCH ············ AM-FM-TAPE/OFF
S4 : REC MUTE SWITCH ············ ON-OFF

◎ JACK P.C. BOARD

S3 : BFC SWITCH ···················· 1-2-3

◎ MISCELLANEOUS

S1 : FF/REW SWITCH ··············· ON-OFF
MOTOR POWER SWITCH ········· ON-OFF
S2 : VOLTAGE SELECTOR SWITCH ···· 240v-220v-120v (DU MODEL)

The underlined indicates the switch position.

——— PLAY MODE
– – – – REC MODE

- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

Fig.2

EXPLODED VIEW

EXPLODED VIEW

Cabinet (SK-350)

SK-350/D, DP				SK-350/DU, KC	
Mark	**No.**	**Part No.**	**Description**	**Part No.**	**Description**
★	14.	HXA-875	Front Case Assy	HXA-886	Front Case Assy (SK-350/DU)
★	39.	HNS-572	Rear Case	HNS-582	Rear Case (SK-350/DU)
				HNS-580	Rear Case (SK-350/KC)

Chassis (SK-350)

SK-350/D, DP				SK-350/DU, KC	
Mark	**No.**	**Part No.**	**Description**	**Part No.**	**Description**
	42.	HWX-406	P.C. Board Unit	HWX-405	P.C. Board Unit
⚠ ★★	43.	HSD-128	Switch (Voltage Selector)	———	Deleted (SK-350/KC)
	44.	BNC30P120FMC	Screw	———	Deleted (SK-350/KC)
⚠ ★	46.	HTT-171	Power Transformer	HTT-174	Power Transformer (SK-350/KC)
	51.	HTX-142	Antenna Unit	HTX-143	Antenna Unit (SK-350/DU)
	52.	HNS-572	Rear Case	HNS-582	Rear Case (SK-350/DU)
				HNS-580	Rear Case (SK-350/KC)
⚠				CNV-863	AC Cap [AC Socket]
⚠				HNV-536	Cover (SK-350/DU) [Voltage Selector]

Cabinet (SK-300)

SK-300/D, DP				SK-300/DU, KC	
Mark	**No.**	**Part No.**	**Description**	**Part No.**	**Description**
★	14.	HXA-874	Front Case Assy	HXA-885	Front Case Assy (SK-300/DU)
★	35.	HNS-563	Rear Case	HNS-581	Rear Case (SK-300/DU)
				HNS-579	Rear Case (SK-300/KC)

Chassis (SK-300)

SK-300/D, DP				SK-300/DU, KC	
Mark	**No.**	**Part No.**	**Description**	**Part No.**	**Description**
	35.	HWX-408	P.C. Board Unit	HWX-407	P.C. Board Unit
⚠ ★★	36.	HSD-128	Switch (Voltage Selector)	———	Deleted (SK-300/KC)
	37.	BNC30P120FMC	Screw	———	Deleted (SK-300/KC)
⚠ ★	38.	HTT-171	Power Transformer	HTT-174	Power Transformer (SK-300/KC)
	44.	HTX-142	Antenna Unit	HTX-143	Antenna Unit (SK-300/DU)
★	45.	HNS-563	Rear Case	HNS-581	Rear Case (SK-300/DU)
				HNS-579	Rear Case (SK-300/KC)
⚠				CNV-863	AC Cap [AC Socket]
⚠				HNV-536	Cover (SK-300/DU) [Voltage Selector]

PACKING METHOD

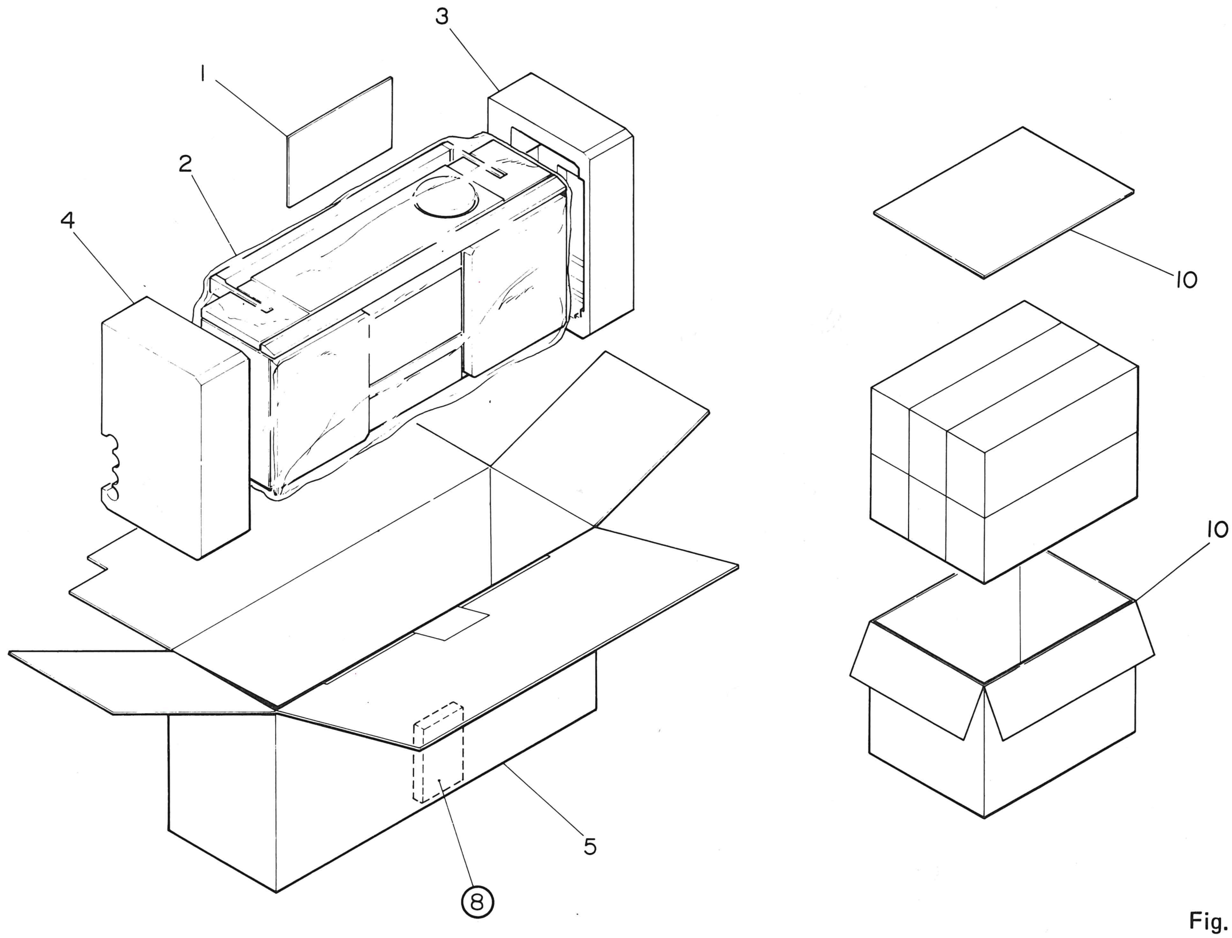


Fig. 3

• Parts List

Mark	No.	Part No.	Description
	1.	HRB-190	Owner's Manual (SK-350/DU, KC) (English)
		HRB-191	Owner's Manual (SK-350/KC) (French)
		HRB-188	Owner's Manual (SK-300/DU, KC) (English)
		HRB-189	Owner's Manual (SK-300/KC) (French)
⚠		CDG-029	AC Cord
			Card (SK-350/DU, SK-300/DU)
			Card (SK-350/KC, SK-300/KC)
	2.	HEG-151	Cover

Mark	No.	Part No.	Description
	3.	HHA-634	Styrofoam
	4.	HHA-633	Styrofoam
	5.	HHA-639	Carton (SK-350/DU)
		HHA-643	Carton (SK-350/KC)
		HHA-637	Carton (SK-300/DU)
		HHA-641	Carton (SK-300/KC)
	6.	VACANT	
	7.	VACANT	
	8.		Styrofoam
	9.	VACANT	
	10.	HHA-638	Contain Box (SK-350/DU)
		HHA-636	Contain Box (SK-300/DU)